

# Hikvision IP Camera Driver Installation and Usage Guide



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## Overview

This package consists of three different drivers that should cover most installation setups:

- NVR
- PTZ Camera
- Static non PTZ Camera

With the addition of the DVR / NVR driver for K and I Series NVRs, we have provided some additional automation to configure the cameras connected to these NVRs.

### Our drivers cover the following site setups:

- One or more standalone cameras connected to shared network switch without an DVR/NVR
- One or more cameras physically connected to the rear of an DVR/NVR
- One or more cameras physically connected to the rear of an DVR/NVR including one or more cameras connected to a shared network switch that are added to the DVR/NVR

### With our drivers you can do the following:

- Onscreen user interface control on the K & I series DVR / NVR via remote control simulation (requires special firmware).
- Access IP camera live streams when behind an NVR
- Access camera live streams when behind an DVR
- Receive alerts on mobile devices using the Push Notification Agent.
- Access to currently active, *basic* and *smart* events that you can use to program Control4 actions against including bindings on the Connections tab
- Licence Plate recognition (on supported cameras)
- Choose which stream to utilise with the driver.
- The driver will automatically update its name to reflect the device name set in the webui.
- Set presets via Composer.
- Trigger camera commands via the Programming tab.
- Ability to change the camera resolution to better match Control4's preferred resolution

## Features

- Control4 OS 3.0 Support
- Support for I Series DVRs and K Series NVRs
  - Navigate OSD with Control4 remote
- Improved configuration of cameras connected to DVR/NVR
- Supports Analog/IP PTZ & Non PTZ Cameras on the local network or connected directly to a DVR/NVR
  - View live camera stream on Control4 interface
  - PTZ control (Up, Down, Left, Right, Preset, Zoom)
  - Control4 **Push Notification Snapshot Support** (push notification photos to mobile phones)
  - Live Events
    - Auto-sensing and re-connection of alert stream loss
    - Auto import of events including
      - VMD (video motion detection)
      - Tamper Detection
      - Disk Full
      - Disk Error
      - Line Motion
      - Field Motion
      - Video Mismatch
      - Region Entrance
      - Region Exiting
      - Unattended Baggage
      - Attended Baggage
    - Ability to bind events to contact drivers in Control4 (eg motion sensor driver)
  - Programming commands
    - Day Night Mode
    - Goto Preset
    - Auto Flip
    - Back to origin
    - One touch patrol
    - Reboot camera
  - Auto Setup of Camera
    - You can set camera resolution configuration for best performance for Control4 via a single button press from Composer
    - You can set the current position as either a preset or home from Composer

# Change Log

## Version #20210319 - 19-MAR-2021

- Added Licence plate detection to nonPTZ driver. Including licence plate variable for integrators to program against
- Improved collection of available Basic and Smart Events for creating bindings
- Added NVR driver based on satellite proxy

## Version #20210202 - 02-FEB-2021

- Added additional checks to handle authentication issues

## Version #20210121 - 21-JAN-2021

- Increased **Properties Preferred Stream** to 10

## Version #20210119 - 19-JAN-2021

- Updated to new Driver Central licensing
- Improved handling of triggers from NVRs and DVRs

## Version #20200621 - 27-JUL-2020

- Improved handling of devices with non-standard HTTP Ports

## Version #20200620 - 03-JUL-2020

- Added Property Alternate URL to modify the snapshot and mjpeg urls for devices that don't handle the extra commands in the URLs

## Version #20200616 - 16-JUN-2020

- Added the ability to read newer camera triggers for creation of bindings for event triggers

## Version #20200522 - 22-MAY-2020

- Added Enable Alert Processing option in Properties tab to reduce controller load on systems with a large number of cameras
- Added better handling of complex passwords

## Version #20200423 - 23-04-2020

- Fixed issue with PTZ Properties

Version #20200422 – 22-04-2020

- Added ability to access cameras connected to an NVR
- Improved handling of complex passwords
- Improved creation of bindings for event triggers

Version #20200320 – 20-03-2020

- Added field to the Properties tab to reverse the pan and tilt commands
- Updated FAQ

## **Version #20191230 – 30-DEC-2019**

- Fixed bug introduced when creating bindings

## **Version #20191223 – 23-DEC-2019**

- Fixed bug with stream URL creation
- Minor changes to documentation
- Update to handling of binding creation

## **Version #20191216 – 16-DEC-2019**

- Initial Release



# Standalone Camera(s) on a network switch

## Drivers

chowmain\_hikvision\_PTZ.c4z or chowmain\_hikvision-nonPTZ.c4z

## When to use

If you have one or more PTZ or nonPTZ drivers that you want to access in Control4 and program against Basic and Smart Events

## Driver Install Steps

It is important to add the details in the following order;

### 1. Advanced Properties > Properties

- a. Is Camera Connected To an NVR    No
- b. Preferred Stream                      1 Main Stream 2 Sub Stream
- c. PTZ Movement Duration              You can adjust this later as required (*not available in nonPTZ driver*)
- d. Reverse PTZ Controls                  Flips the direction of the pan and tilt (*not available in nonPTZ driver*)
- e. Enable Alert Processing                Set this to On if you plan on programming against camera events

### 2. Properties > Camera Properties

- a. HTTP Port                                Change as required
- b. RTSP Port                                Change as required
- c. Required                                  This must be ticked
- d. Username                                Username for the CAMERA
- e. Password                                 Password for the CAMERA
- f. Type                                        Basic
- g. Hostname / IP Address    IP address of the camera

### 3. Refresh Navigators

- 4. Make the appropriate Bindings in the Connections tab using a CONTACT\_SENSOR driver

# I or K Series DVR/NVR

## Driver

chowmain\_hikvision\_nvr.c4z

## When to use

- When you want to connect the HDMI port on the DVR/NVR directly to a TV and navigate the NVR interface with a Control4 remote

## Notes

This driver requires **special firmware** to make the DVR/NVR's remote control functions available to our driver.

Please contact Hikvision support or visit <https://us.hikvision.com/en/control4-smart-home-solution>

## DVR/NVR OSD Configuration

It is important that you install the firmware before completing this step

Via the OSD go to the System > General menu:

- untick **Enable Wizard**
- untick **Enable Password**

## DVR/NVR WebUI Configuration

It is important that you install the firmware before completing this step

1. Configuration > System > Security > Authentication > RTSP Authentication = **digest/basic**
2. Configuration > System > Security > Authentication > WEB Authentication = **digest/basic**
3. Configuration > System > Security > Security Service > Enable ISAPI = Ticked
4. Configuration > Network > Advanced Settings > Other > Enable Virtual Host = Ticked (Only required on the NVR)
5. Configuration > System > Camera Management > Make a note of the port used under Connect Port will either be 80 or 650xx. You will need to hover the mouse over the link to see the URL

## Driver Install Steps

1. In Composer search for **Hikvision**

2. Add **Hikvision NVR** to the project
3. Update **IP Address** of the DVR/NVR
4. Update **HTTP Port** of the DVR/NVR
5. Update **RTSP Port** of the DVR/NVR
6. Update **Username** of the DVR/NVR
7. Update **Password** of the DVR/NVR
8. Update **Authentication Type** of the DVR/NVR

|                     |               |
|---------------------|---------------|
| Debug Mode          | Off           |
| IP Address          | 172.16.16.152 |
| HTTP Port           | 80            |
| RTSP Port           | 554           |
| Username            | admin         |
| Password            | *****         |
| Authentication Type | BASIC         |

9. Set the Configurable Buttons as required

| Configurable Buttons |      |
|----------------------|------|
| CC                   | F1   |
| INPUT - TV-VIDEO     | Prev |
| PREV - RECALL        | None |
| INFO                 | EDIT |
| DVR                  | None |
| GUIDE                | None |
| BLUE BUTTON          | None |
| RED BUTTON           | None |
| GREEN BUTTON         | None |
| YELLOW               | None |

- 10.Refresh Navigators

## I or K Series DVR/NVR with Cameras

### Driver

chowmain\_hikvision\_nvr.c4z and,

chowmain\_hikvision\_PTZ.c4z and/or chowmain\_hikvision-nonPTZ.c4z

### When to use

- When you have an I or K series device and want to connect the HDMI port on the DVR/NVR directly to a TV and navigate the NVR interface with a Control4 remote
- You also want to have access to individual streams of one or more cameras physically connected behind the DVR/NVR
- You want to program against Basic or Smart Events from one or more cameras physically connected behind the DVR/NVR

This driver requires special firmware to make the DVR/NVR's remote control functions available to our driver. Please contact Hikvision support

### Driver Install Steps

1. Follow the install steps for the **I or K Series DVR/NVR** first
2. Now follow the install steps for **Camera(s) physically connected to a DVR/NVR**

# Camera(s) physically connected to a DVR/NVR

## Driver

chowmain\_hikvision\_nvr.c4z and,

chowmain\_hikvision\_PTZ.c4z and/or chowmain\_hikvision-nonPTZ.c4z

## When to use

If you have one or more PTZ or nonPTZ cameras connected to an NVR that you want to access in Control4 and program against Basic and Smart Events

The Hikvision NVR driver essentially becomes a master driver that not only improves the setup time when adding a large number of cameras, it also better handles events from the DVR/NVR when you have more than a few cameras connected.

## Driver Install Steps

1. Follow the install steps for the **I or K Series DVR/NVR** first
2. In Composer search for **Hikvision**
3. Add **Hikvision PTZ** or **Hikvision nonPTZ** to the project
4. Go to the **Connections** tab for the camera driver
5. Select the Hikvision NVR Control



6. bind it to the appropriate **Hikvision Output Device**

| Hikvision Output Devices |            |               |             |
|--------------------------|------------|---------------|-------------|
| Device                   | Name       | Location      | Connections |
| Network Video Recorder   | Channel 1  | DO NOT DELETE |             |
| Network Video Recorder   | Channel 2  | DO NOT DELETE |             |
| Network Video Recorder   | Channel 3  | DO NOT DELETE |             |
| Network Video Recorder   | Channel 4  | DO NOT DELETE |             |
| Network Video Recorder   | Channel 5  | DO NOT DELETE |             |
| Network Video Recorder   | Channel 6  | DO NOT DELETE |             |
| Network Video Recorder   | Channel 7  | DO NOT DELETE |             |
| Network Video Recorder   | Channel 8  | DO NOT DELETE |             |
| Network Video Recorder   | Channel 9  | DO NOT DELETE |             |
| Network Video Recorder   | Channel 10 | DO NOT DELETE |             |
| Network Video Recorder   | Channel 11 | DO NOT DELETE |             |
| Network Video Recorder   | Channel 12 | DO NOT DELETE |             |

7. Go to the **System Design** tab
8. Confirm that all the Properties are correctly completed and modify as required
9. Confirm that both the **Get Snapshot URL** and **Get H.264 URL** tests pass

# Configuring Events

The camera driver will populate the bindings for each available Basic and Smart Event available, once the camera receives a trigger from the Hikvision NVR driver

| Name                   | Type    | Connection     | Input/Output | Connected To                                  |
|------------------------|---------|----------------|--------------|---|
| <b>Control Inputs</b>  |         |                |              |   |
| Hikvision NVR          | Control | Hikvision      | Input        | Network Video Recorder->Channel 16            |
| <b>Control Outputs</b> |         |                |              |   |
| IO                     | Control | CONTACT_SENSOR | Output       |   |
| IO                     | Control | CONTACT_SENSOR | Output       |   |
| IO                     | Control | CONTACT_SENSOR | Output       |   |
| IO                     | Control | CONTACT_SENSOR | Output       |   |
| softIO                 | Control | CONTACT_SENSOR | Output       |   |
| softIO                 | Control | CONTACT_SENSOR | Output       |   |
| softIO                 | Control | CONTACT_SENSOR | Output       |   |
| softIO                 | Control | CONTACT_SENSOR | Output       |   |
| softIO                 | Control | CONTACT_SENSOR | Output       |   |
| softIO                 | Control | CONTACT_SENSOR | Output       |   |
| softIO                 | Control | CONTACT_SENSOR | Output       |   |
| softIO                 | Control | CONTACT_SENSOR | Output       |   |
| softIO                 | Control | CONTACT_SENSOR | Output       |   |
| softIO                 | Control | CONTACT_SENSOR | Output       |   |
| softIO                 | Control | CONTACT_SENSOR | Output       |   |
| softIO                 | Control | CONTACT_SENSOR | Output       |   |
| softIO                 | Control | CONTACT_SENSOR | Output       |   |
| softIO                 | Control | CONTACT_SENSOR | Output       |   |
| softIO                 | Control | CONTACT_SENSOR | Output       |   |
| softIO                 | Control | CONTACT_SENSOR | Output       |   |
| VMD                    | Control | CONTACT_SENSOR | Output       |   |
| tamperdetection        | Control | CONTACT_SENSOR | Output       |   |
| videoloss              | Control | CONTACT_SENSOR | Output       |   |
| fielddetection         | Control | CONTACT_SENSOR | Output       |   |
| linedetection          | Control | CONTACT_SENSOR | Output       | linedetection - Motion Sensor->Contact Sensor |

## Fine Tuning

When the configuration has been successful, the driver will populate the Properties fields and rename the driver in the System

Use the **PTZ Movement Duration** scroll bar to adjust how long each PTZ button press should last. A smaller number is better suited to when your camera is always zoomed in. *(not available in nonPTZ driver)*

The **Preferred Stream** allows you to choose which stream you want to use for the snapshot and stream, the Main Stream, Sub Stream or 3rd Stream (if it is configured)

*(PLEASE REFRESH NAVIGATOR FOR THIS SETTING TO TAKE EFFECT!)*

Use **Reverse PTZ Controls** if you find that panning or tilting is the reverse of what is expected. *(not available in nonPTZ driver)*

The **Enable Alert Processing** option has been added as some projects can become overwhelmed with processing a large number of triggers when there is a high number of cameras added to a project.

# General DVR/NVR Usage

## Live view

In live view, the device will sequentially rotate through the cameras.

Pressing the Hikvision **PREV** button cycles through the grid view

Using the number buttons will set that particular camera full screen

For cameras that have PTZ functionality, you can use the Up/Down/Left/Right/Page Up/Page Down to control the camera

## Playback view

*Note: You can't access the camera listing on the left of the playback view with the remote*

When in Live View, press the Play or OK button to enter Playback view.

Pressing the Play or OK button again will bring up a menu to select the camera, date and time

Use the Up/Down/Left/Right/OK to adjust and select the date and time

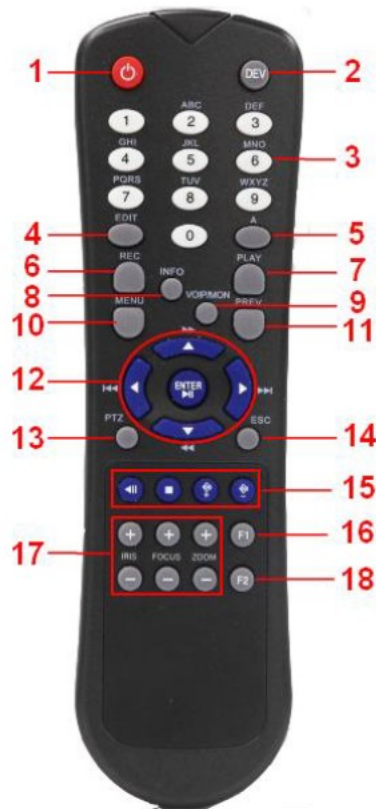
When you're watching a recording

- Use the **left** and **right** or the |< and >| buttons to skip forward 30 seconds
- Use the << and >> buttons to step a frame back or forward
- Use the **F1** assigned button to switch the direction of the playback



## Control4 Remote with Hikvision DVR/NVR

We have made what we believe to be the most user friendly mapping of the Hikvision remote to Control4's remote. We also understand that there are always edge cases that require different mappings.



| Hikvision Remote Button Number | Hikvision Remote Label | Control4 Remote Button Name   |
|--------------------------------|------------------------|---|
| 3                              | Number keys            | Same  |
| 4                              | Edit                   | This can be assigned to any of the buttons in the Properties' Configurable Buttons  |
| 6                              | REC                    | This is assigned to the Record button   |
| 7                              | PLAY                   | By default this is assigned to the DVR button. This can be assigned to any of the buttons in the Properties' Configurable Buttons |
| 10                             | MENU                   | This is assigned to the Menu button   |
| 11                             | PREV                   | This can be assigned to any of the buttons in the Properties' Configurable Buttons  |
| 12                             | UP/DOWN/LEFT/<br>RIGHT | These are assigned to UP/DOWN/LEFT/RIGHT/OK   |

| Hikvision Remote Button Number | Hikvision Remote Label | Control4 Remote Button Name  |
|--------------------------------|------------------------|--|
| 14                             | ESC                    | This is assigned to the Back button  |
| 16                             | F1                     | This can be assigned to any of the buttons in the Properties' Configurable Buttons |

Please Note: In the driver's **Properties** tab, you can change what certain C4 remote buttons do under the **Configurable Buttons** heading:

| Configurable Buttons |      |
|----------------------|------|
| CC                   | F1   |
| INPUT - TV-VIDEO     | Prev |
| PREV - RECALL        | None |
| INFO                 | EDIT |
| DVR                  | None |
| GUIDE                | None |
| BLUE BUTTON          | None |
| RED BUTTON           | None |
| GREEN BUTTON         | None |
| YELLOW               | None |

#### Additional Control4 Remote Buttons

|                  |  |
|------------------|--|
| Channel Up/ Down | Switches to the previous or next channel in full screen mode |
| Page Up/ Down    | Zoom in or zoom out on supported cameras                     |

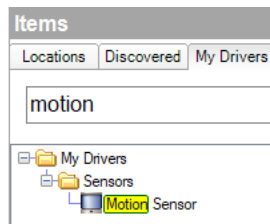
## Actions

### ACTIONS TAB

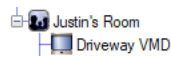
|  |   |
|--|---|
| Re-build Bindings                        | If you find that you don't have any bindings for the alert triggers and are confident that the camera is configured correctly, pressing this button will recreate these bindings                                  |
| Configure Camera resolution for Control4 | You can use this option to set the stream you have selected in Preferred Stream on the Properties tab to a supported resolution that is optimal for   |
| Set Current Position as a Preset         | Set the current position of the camera as a preset with a label   |
| Set Current Position as Home             | Set the current position of the camera as the 'Home' preset   |
| Restart Event Listener                   | Use this option to reinitialise the smart and basic alert streams should this stop working. This usually occurs if you have changed any of the connection or authentication settings on the Camera Properties tab |
| Print Configuration Data                 | Use this to output the settings of the driver into the Lua tab  |
| Camera Reboot                            | Quick way to reboot the camera  |
| Driver Update                            | Forces the driver to recheck all the data for the Properties tab and Connections bindings   |

## Bindings on the Connections tab

1. Search for *Motion* in **My Drivers** and add it to your project




2. Give the sensor a name like *Driveway VMD*



3. Select **Connections**



4. Select your camera from the Tree on the left.
5. The Control Outputs should now be populated with all the available contact sensors
6. Make the binding between the Driveway contact sensor and the camera VMD

| CONTACT_SENSOR Input Devices   |                |               |              |
|--|----------------|---------------|--------------|
| Device   | Name           | Location      | Connections  |
|  Driveway VMD | Contact Sensor | Justin's Room | IP DOME->VMD |

# Configuring Push Notification Agent

1. On the Properties tab, choose the Preferred Stream number and press Set

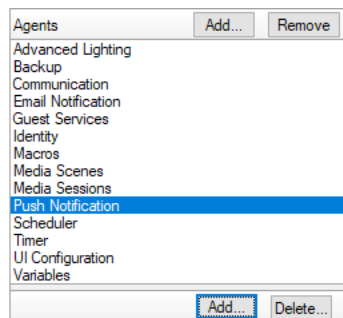


Preferred Stream 2

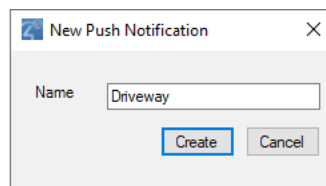
2. (optional) On the Actions tab, press the Configure Camera Resolution for Control4
3. Open Agents



4. Select Push Notification and press Add... below



5. Enter the name of the notification and press Create

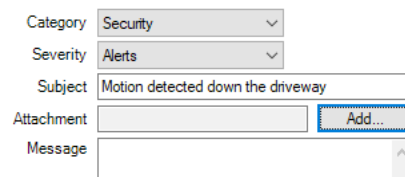


New Push Notification X

Name Driveway

Create Cancel

6. Add the Subject line and press Add... to select the snapshot



Category Security

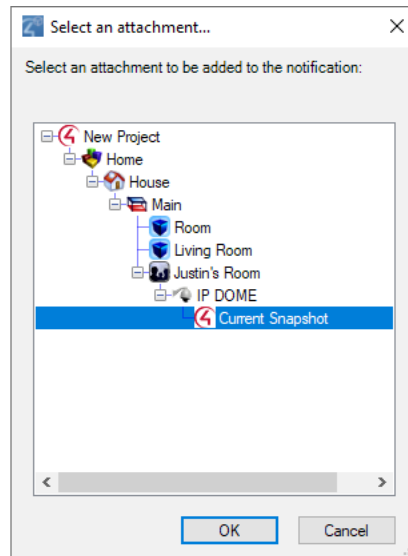
Severity Alerts

Subject Motion detected down the driveway

Attachment Add...

Message

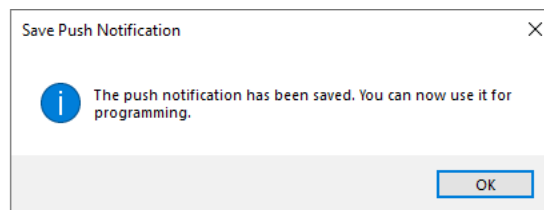
7. Expand the tree to your camera and select Current Snapshot



8. Select Save



9. Press OK



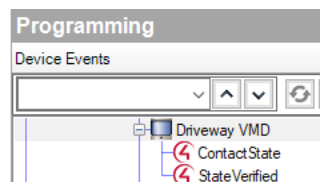
## Send Push Notifications when a binding is triggered

Once you have successfully set up Bindings on the Connections tab you can tie that in with the Programming tab

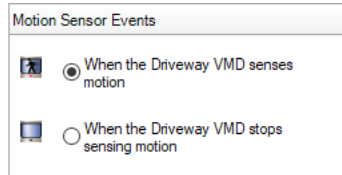
1. Select Programming



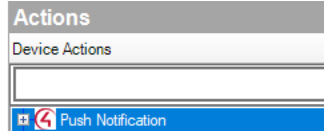
2. Under Device Events select your Driveway VMD motion sensor



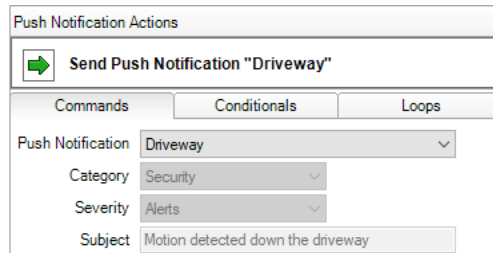
3. Select When the Driveway VMD senses motion



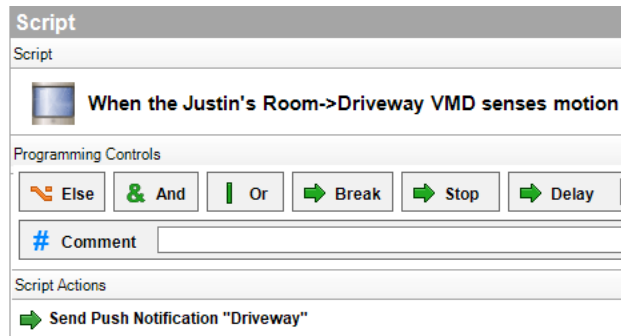
4. Now, under Actions select Push Notification



5. Select Driveway from the Push Notification



6. Now drag the green arrow across to the Script Actions

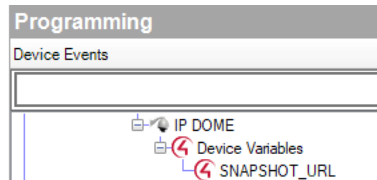


# Programming against Activated Alerts

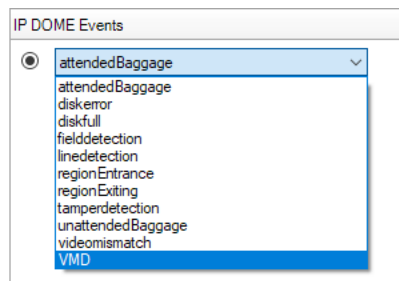
1. Once the Active Events Properties field has been populated, you are ready to program against the activated alerts



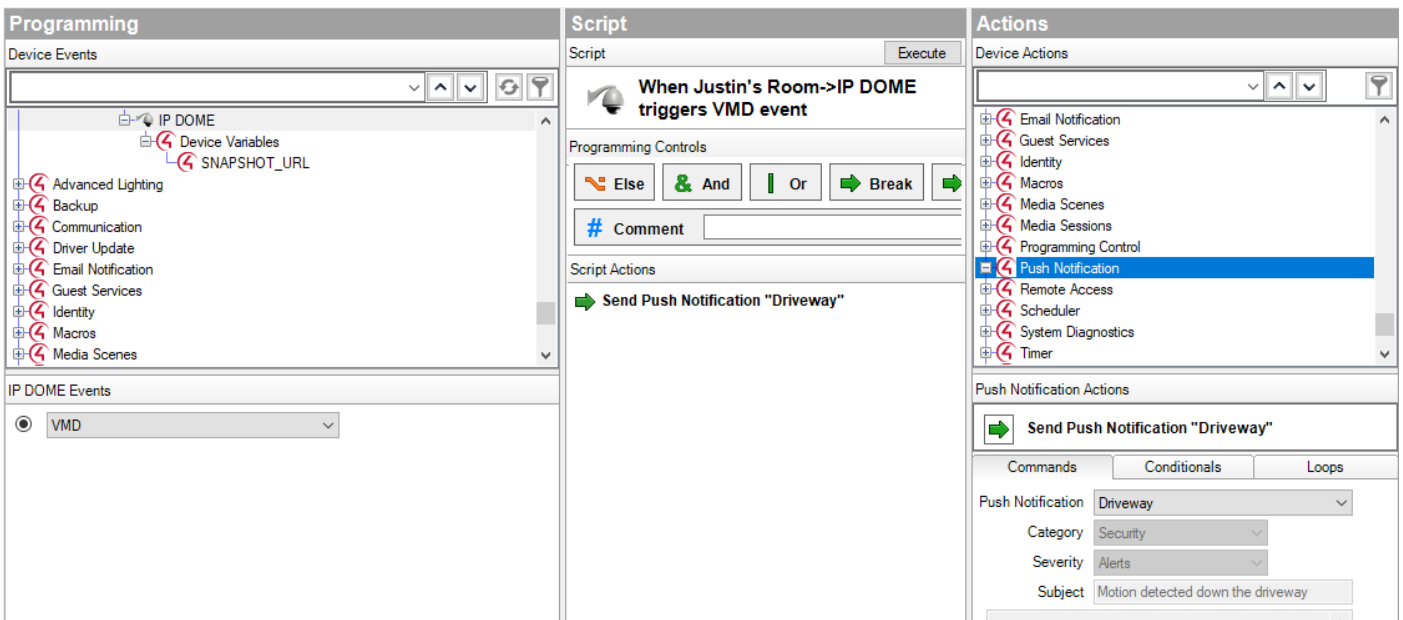
2. Select the camera from the Device Events window



3. Select the event from the drop down list;



4. The below screenshot utilises the Push Notification Agent Action to only send a snapshot when the camera triggers the specified event, rather than using "When SNAPSHOT\_URL changes";





## FAQ

### What cool things can we do with this driver?

- The driver's Auto setup functionality makes configuration of the cameras quick and easy.
- This driver provides the ability to attach snapshots to Control4 Push Notifications (4sight required). Tie this in with the camera's motion events and your customer can get notified (with an image) if the camera detects motion.
- This camera provides live feedback of events which is useful if you want to tie in lighting to motion and other events.

### What products will this work for?

This will work with Hikvision's range of IP cameras. Some manufacturers "OEM" Hikvision's cameras and re-badge them as their own so these should also work with our driver. Please test prior to licence purchase as some features can be stripped from OEM devices.

### What NVR / DVR devices does your driver support?

Hikvision have made available firmware for the K Series DVRs and the I Series NVRs that allows our driver to control the OSD for these devices when connected via HDMI.

Please contact Hikvision support to access this updated firmware

### What about Hikvision's other NVR range?

Our camera driver supports cameras connected to the rear of NVRs for live view of cameras along with PTZ and events.

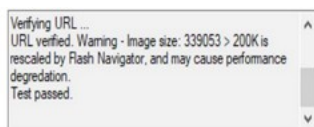
### What about Hikvision's other DVR range?

To access the image, rtsp stream and receive alerts, the DVR must support the ISAPI protocol. This support will be listed in the device's specifications under Network Protocols.

Our driver can display the stream and get snapshots from coaxial camera's that sit behind an DVR.

The only limitation is that the driver can't build bindings for event triggers.

**My Snapshot test passes however I get a notice that says *Image size: xxxxxx > 200K is rescaled by Flash Navigator, and may cause performance degradation. Test Passed.***

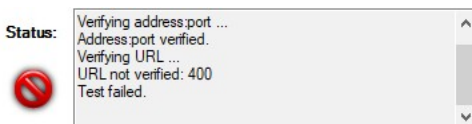


**The snapshot test fails with *URL not verified: The remote server returned an error: (500) Internal Server Error.***

Some devices only return the snapshot for the main stream. If the main stream resolution is over a certain size, the device fails. This is a limitation of the device and not Control4 or the driver.

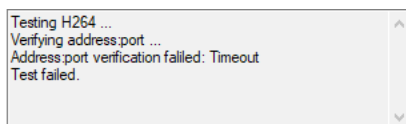
To fix this, you need to lower the resolution of the main stream until the device sends the snapshot.

**The snapshot and/or Mjpeg test fails with URL not verified: 400**



**The H.264 Test fails with Address port verification failed: Timeout**

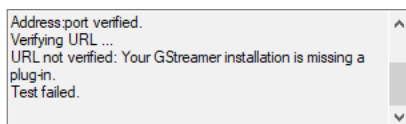
This is likely due to the NVR/IPC being configured with a different RTSP Port to what the driver is using. Sometimes you'll get more information re the endpoint actively refused the connection on this port



**URL not verified: Your GStreamer installation is missing a plug-in**

This is likely caused by the camera stream being set to H.265 in

**Configuration > Video/Audio > Video > Video Encoding**

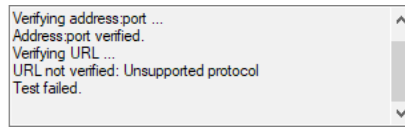


**URL not verified: Unsupported Protocol**

Confirm that the steam (Main Stream, Sub-stream) is set to **H.264**

Confirm that Authentication in the driver is set to **BASIC**

Confirm that the NVR/Camera authentication is set to **basic/digest**



## Upgraded firmware to 5.5.0 and driver not working as expected

Hikvision have included an option to enable/disable the way our driver communicates with the device. By default this is disabled and is explained further in the bulletin linked below;

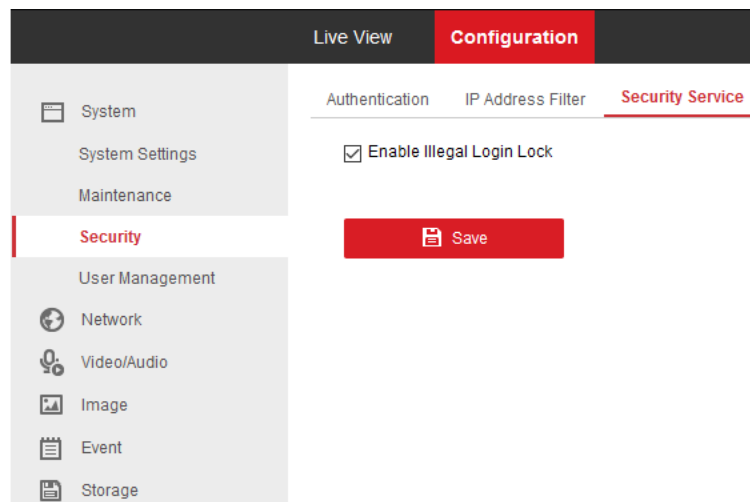
[Hikvision Third-Party Integration Bulletin](#)

## I have received an Authorization Error Timeout Detected message in the logs. What do I do?

This is caused by having either the wrong username, password or authentication type (Basic or Digest) whilst **Enable Illegal Login Lock** is ticked.

You should be able to find this located under **Configuration > Security > Security Service**

Temporarily unticking this box will allow you to fix any errors in the username, password or auth type.



We recommend re-ticking this option once you have the driver configured correctly.

## I cannot see the video stream even though the test passes

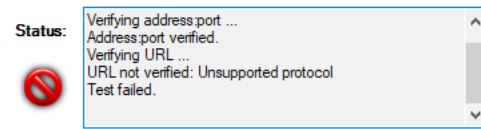
In some cases, the tests will pass even though the Control4 UI cannot handle the stream. This is usually due to video resolution.

You can confirm the details of the video stream using VLC

1. Copy the url from the Camera Test > Get H.264 URL
2. Open VLC
3. Click Media > Open Network Stream...
4. Under the Network tab, paste the url in and click Play
5. Enter credentials as required
6. When the stream is playing in VLC, click Tools > View Codec Information

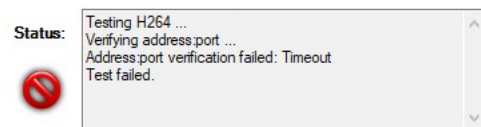
## URL not verified: Unsupported protocol

Check that the stream you have selected is set to use codec h264 and not h265 in the device.



## Port

You likely have the incorrect rtsp port set in the driver. By default it will be set in the device as 554. If you have changed this, then you need to update the driver to match



# Licensing

- How does the trial period work?

All Chowmain drivers are free to use for a set trial period. When the trial expires the driver will cease to function until you purchase a licence and apply it to the driverCentral project.

- Where do I buy a Licence from?

This driver is developed by Chowmain software & Apps and is distributed by driverCentral, Inc <https://www.drivercentral.io/chowmain-ltd>

To purchase a driver:

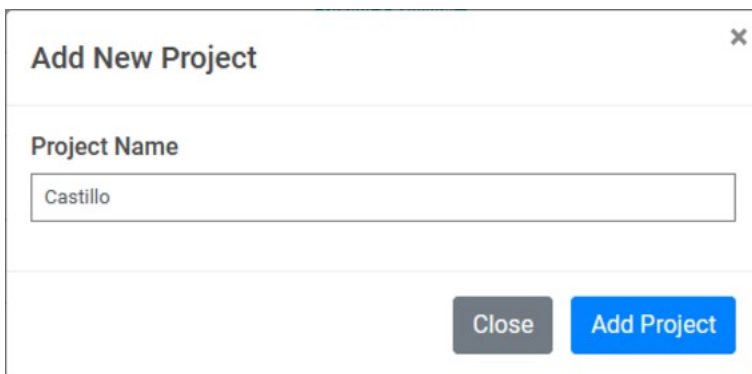
1) On driverCentral, purchase a license and register it to your project

1) If the driver is not already installed in your project, download it and install it

1) If necessary, use the cloud driver's Action: "Check Drivers" to force the licence to download into the project

# Creating a Project on Driver Central

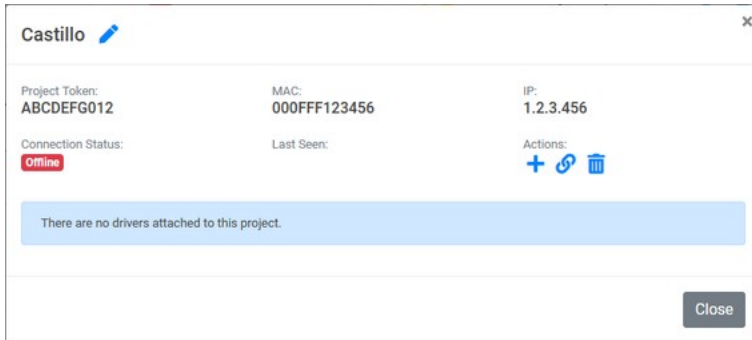
1. Visit <http://www.drivercentral.io>
2. Log into your driver Central dealer account
3. Click **Portal**
4. Click **New Project**
5. Enter the project name



6. Click **Add Project**
7. Click on the project we just created

| Project  | Status             | Created             |
|----------|--------------------|---------------------|
| Castillo | Unassigned Project | 1999-12-31 23:59:56 |

8. Take note of the **Project Token** as this will be used later when we install the Cloud Driver

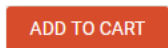


9. Click **Close**

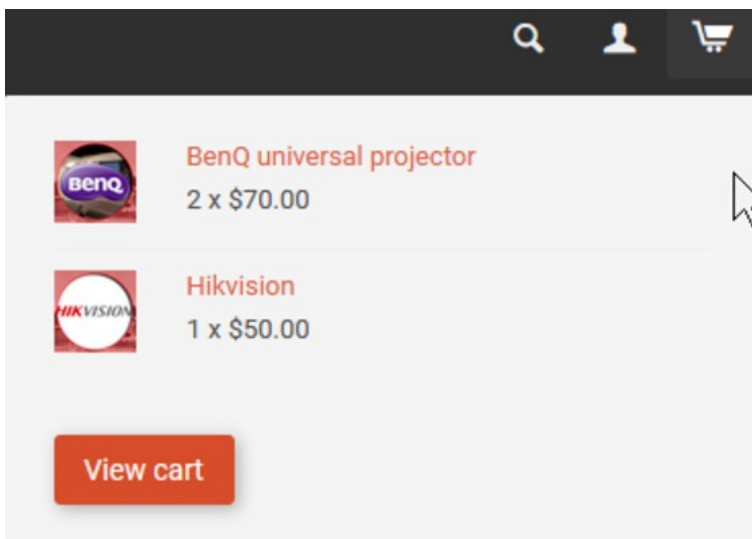
## Purchasing a Driver Licence

1. Visit <https://www.drivercentral.io/chowmain-ltd/> and find the product/driver you want to purchase a licence for

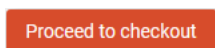
2. Click on **Add to Cart**



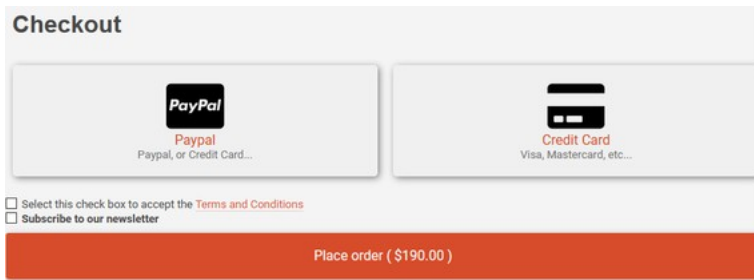
3. Now click the shopping cart icon (top right) and click **View cart**



4. Confirm that your order is correct and click on **Proceed to checkout**



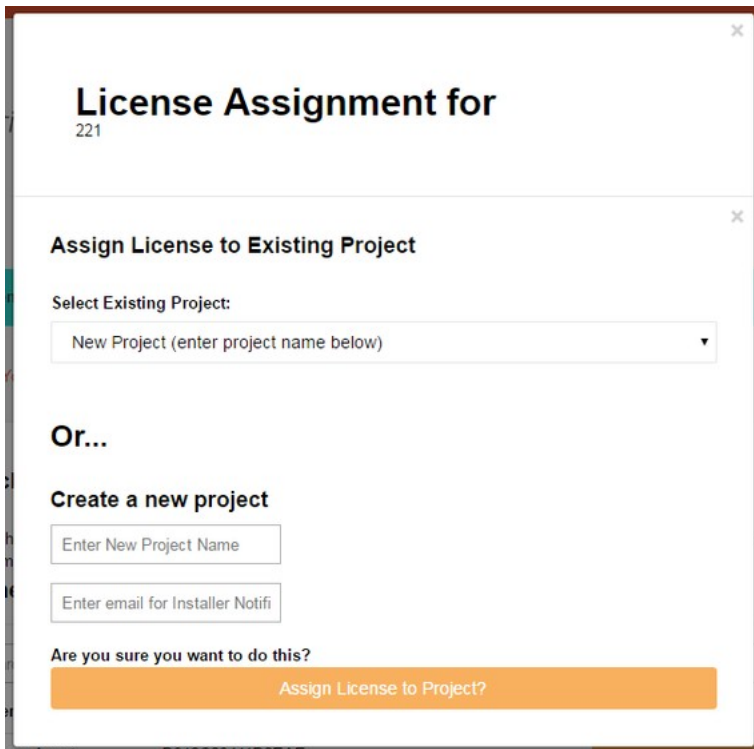
5. Choose your payment option, provide the relevant details and click **Place order**



6. You will now be at a page where you can see your purchased licence

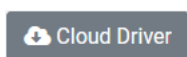


7. From here assign the licence to the project we created or if you did not follow that step create a new project



## Install the driverCentral cloud driver

1. Visit <http://www.drivercentral.io>
2. Log into your driver Central dealer account
3. Click **Portal**
4. Click **Cloud Driver**



5. Copy the C4Z driver to My Documents\Control4\Drivers directory
6. Add the driver to your project
7. Click on the driver to view it's properties

|                     |  |
|---------------------|--|
| Cloud Status        | Please enter cloud project token below...                      |
| Project Information | (1) Total, (0) Licensed, (0) Trials, (1) Expired, (0) Updates. |
| Driver Version      | 1001   |
| Project Token       | <input type="text"/>   |
|                     | Project token from driverCentral.io project portal             |
| Driver Actions      | <input type="button" value="v"/>                               |
| Debug Mode          | Off <input type="button" value="v"/>                           |

8. Type in the project token we took note of earlier
9. Click **Actions** tab
10. Click **Check Drivers**

## Install Chowmain driver

1. Install the Chowmain driver
2. You will notice that the Activation Status reflects a Licence Activated state
3. Any driver that does not have a purchased licence will have a trial licence activated via the marketplace  
*Note that there is no way to reactivate the trial so please use wisely*
4. If you do not then press the Check Drivers action in the driverCentral Cloud driver again

|                    |   |
|--------------------|---|
| Activation Status  | Update Available!!! License Activated               |
| Driver Version     | 1002  |
| Driver Information | Navigate to connections tab and make serial binding |
| Automatic Updates  | Off <input type="button" value="v"/>                |